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APPLICANT : TORAY IND INC;

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TITLE : PRODUCTION OF PITCH-BASED CARBON FIBER

ABSTRACT : PURPOSE: To obtain the title fiber free-from crack on its cross section by melt spinning of a blend of coal-based mesophase pitch with petroleum-based mesophase pitch followed by insolubilization and calcination to enable the insolubilizing time to be shortened.

CONSTITUTION: A blend of coal-based mesophase pitch with petroleum-based one, pref, each 220-300°C in melting point, ≥ 70 wt.% in toluene insolubles and ≥ 80 vol% in optical anisotropy in the weight ratio: 5-95/95-5 is put to melt spinning. Thence, the resultant yarn is oxidized at 250-420°C in the presence of oxygen (normally in air) to effect insolubilization followed by heating at 800-1700°C in an inert gas atmosphere or a vacuum to effect carbonization followed by graphitization at 1700°C in an inert gas atmosphere, thus obtaining the objective fiber.

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